



Beamtest Data Analysis Status

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Data available as:

HBOOK Ntuple (CERNLIB)

ROOT Files (Richard, Dan)

Reconstruction: tbrecon (Jose, Wilko, Masa...)

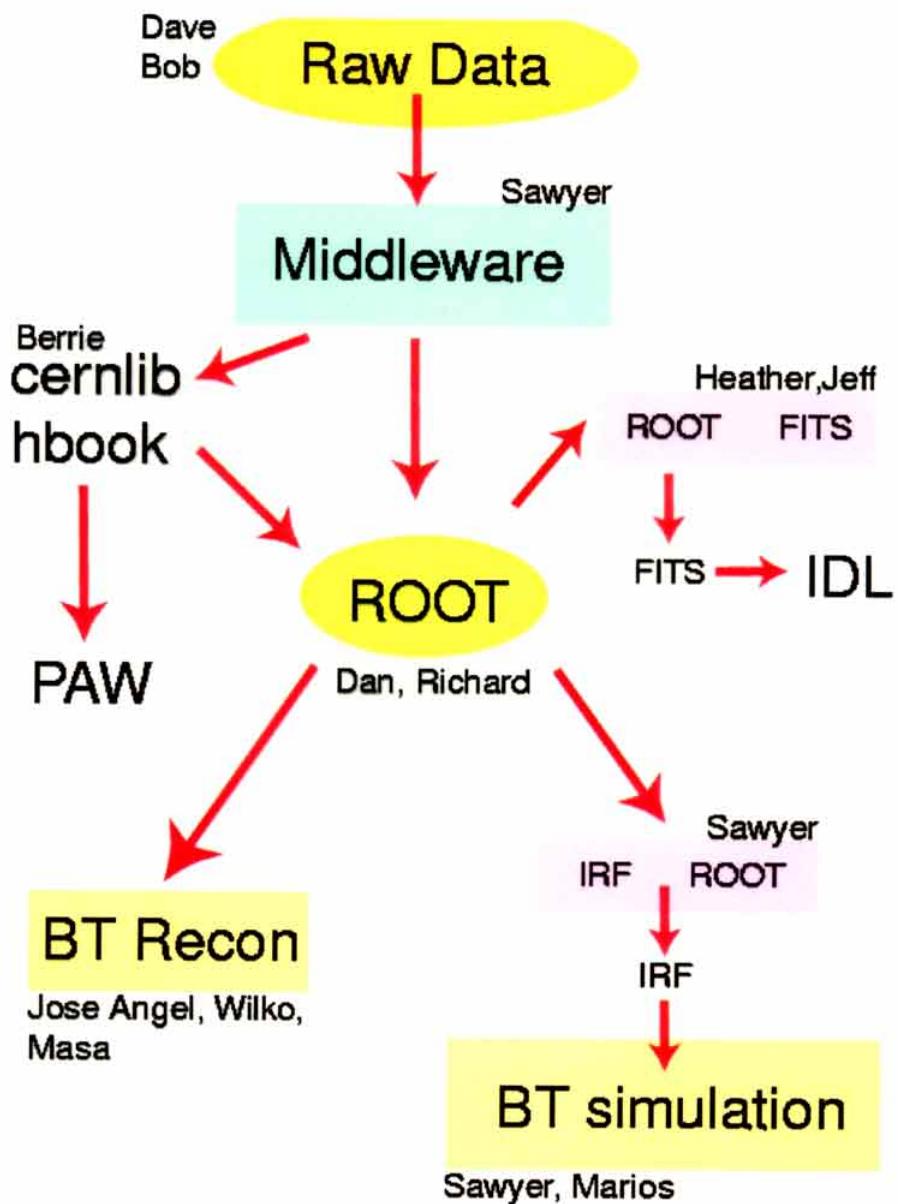
Simulation: tbsim (Sawyer, Marios, Arache...)

Documentation: Traudl

Skipper: Eduardo

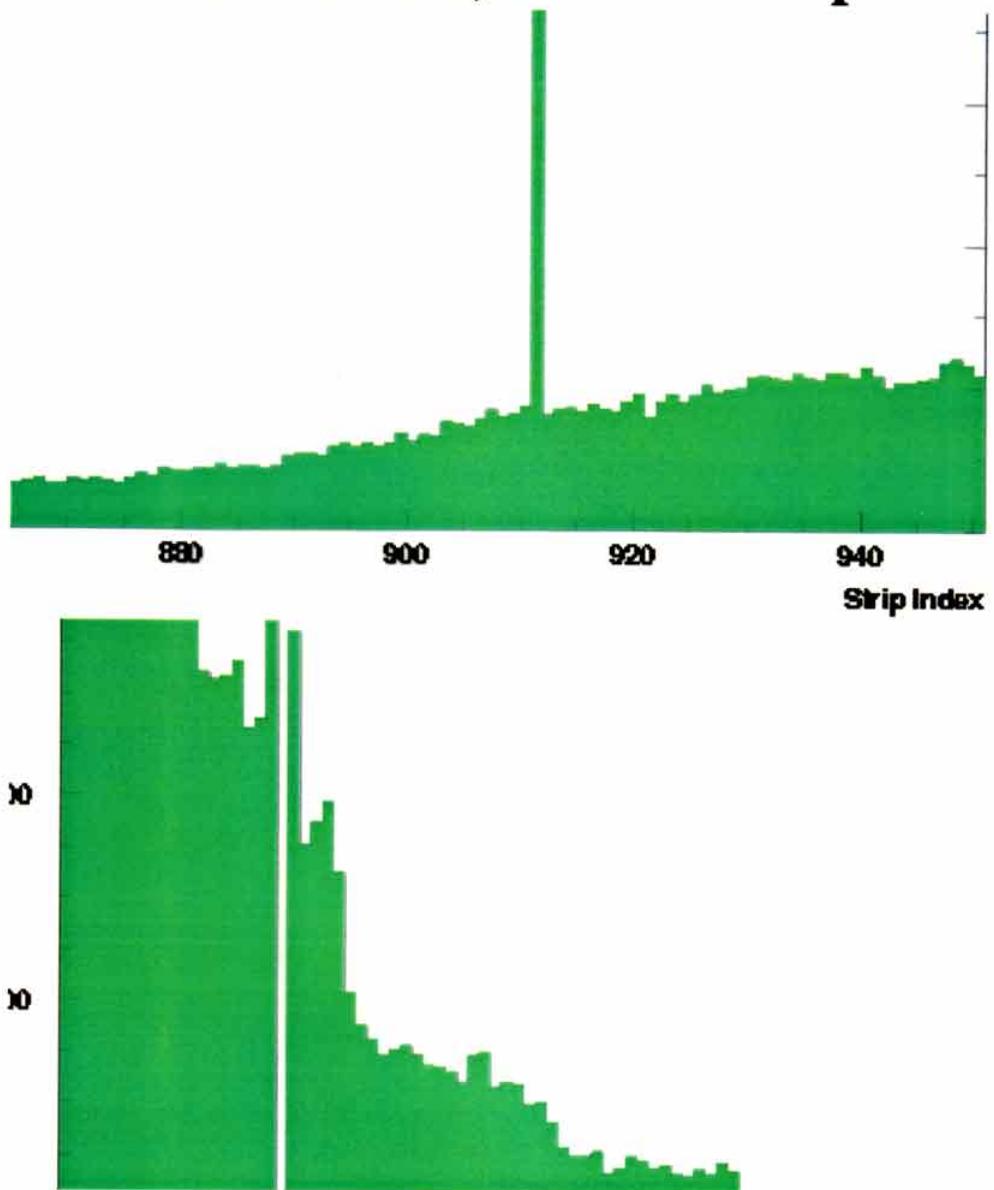


Analysis group





Tracker data, hot/dead strips





Bad Channel List of the GLAST Silicon Tracker for the Beamte

Bad channel list **reported before assembly**. *modified on Feb/29/2000*

Dead channel list from the beamtest data. *complete on Mar/01/2000*

Hot channel list from the beamtest data. *complete on Mar/01/2000*

Summary of bad channels *under construction*

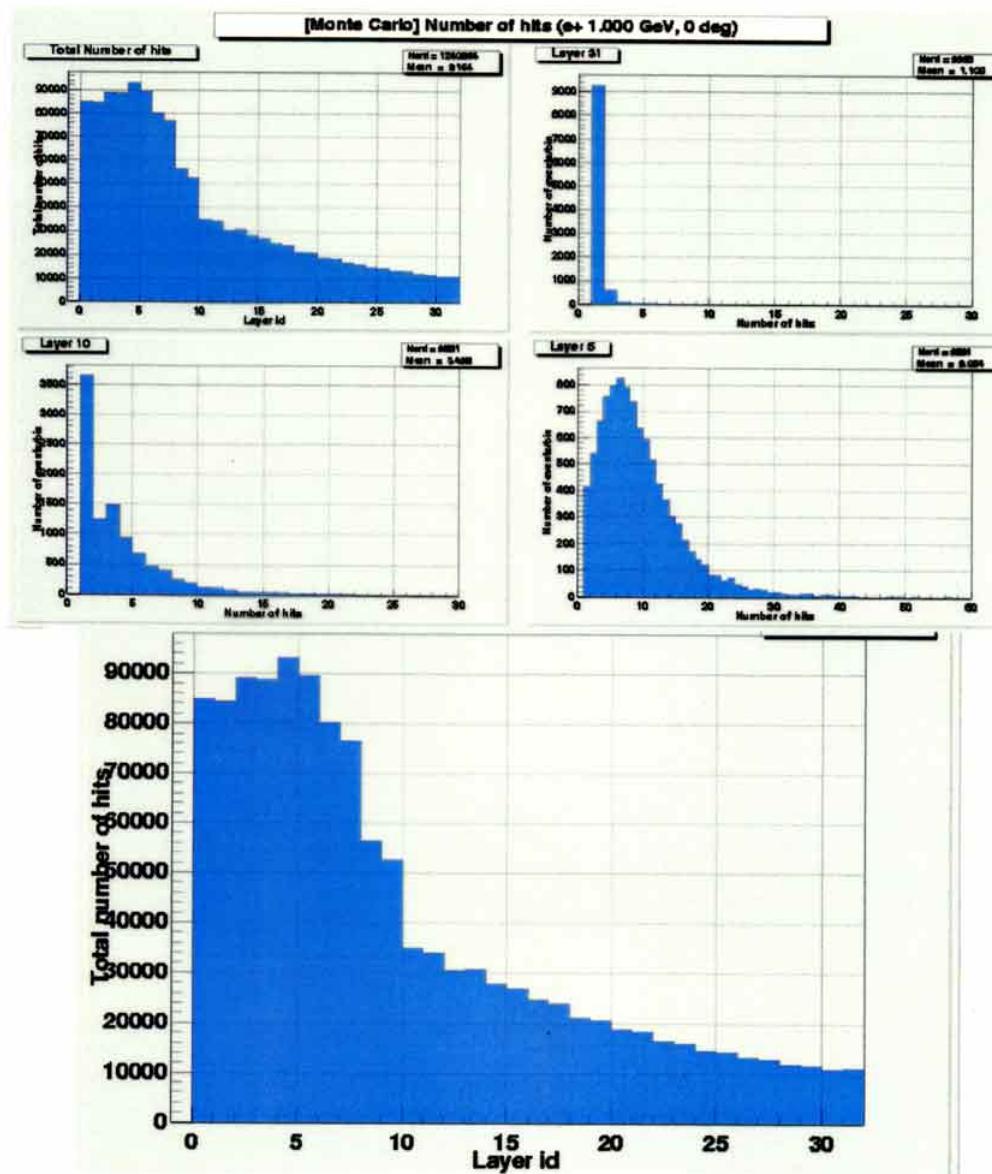
[Back to Taka's beamtest page](#)

Taka!

<http://www.slac.stanford.edu/~handa>



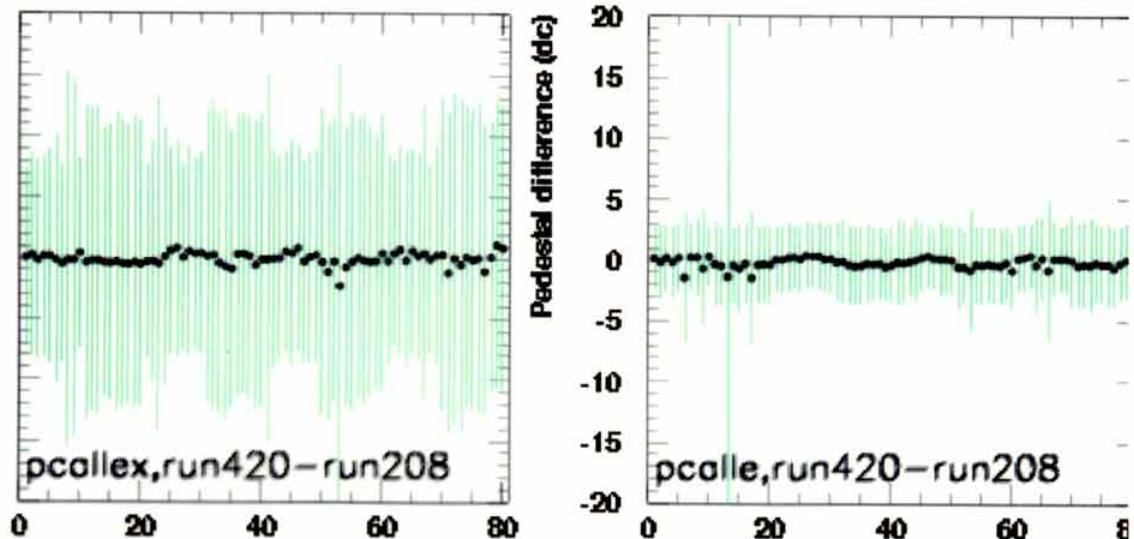
Tracker BT simulations





Calorimeter pedestals

Stability of the Calorimeter pedestals for a large fraction of runs. Clear change after X-mas break.



Possibly need only 2 or 3 different pedestal files for a first look at the data!



Calorimeter Calibration

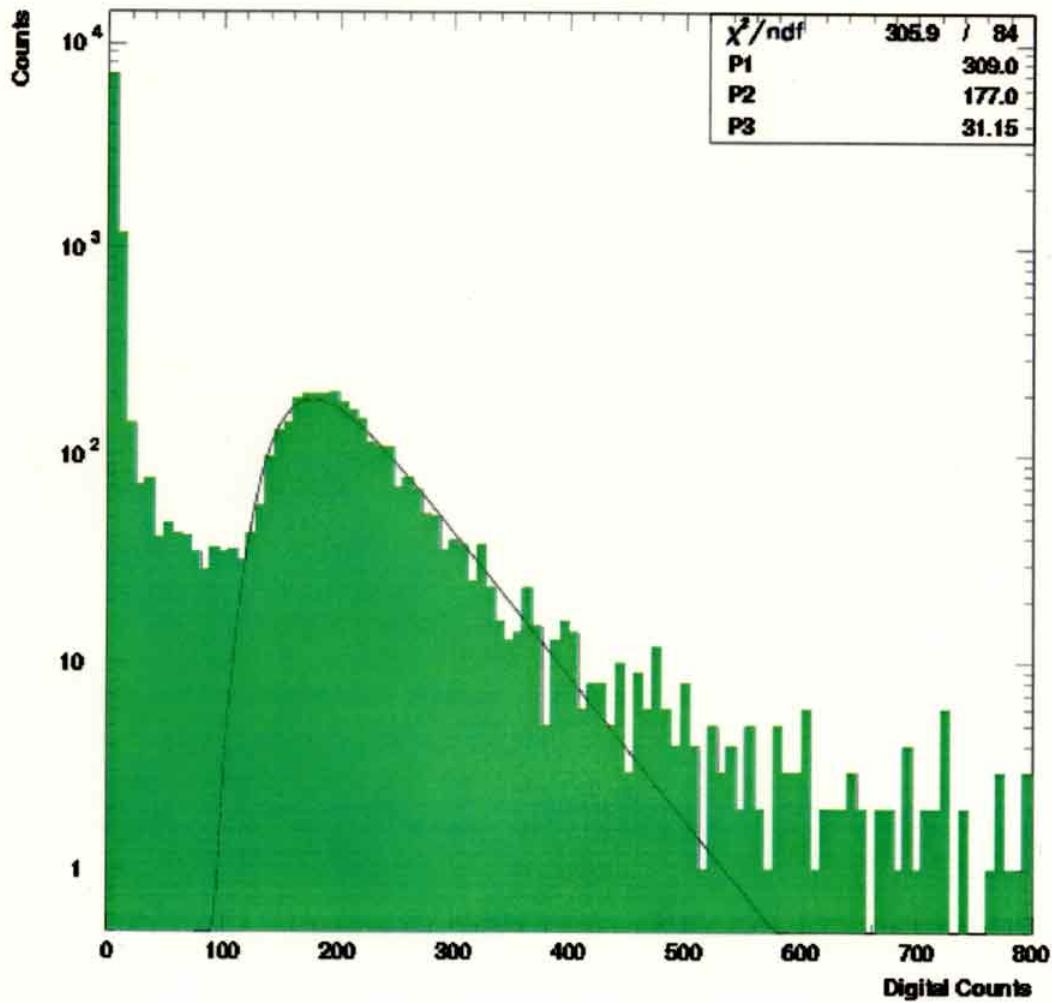
Cosmic ray runs (muons): identified in the run description

Hadron runs (protons, pions): make the correct cuts in the data using ESA (“onegoodp” cuts pions!) and/or Calorimeter information (MIP peak)

Close to conclusion after some surprises

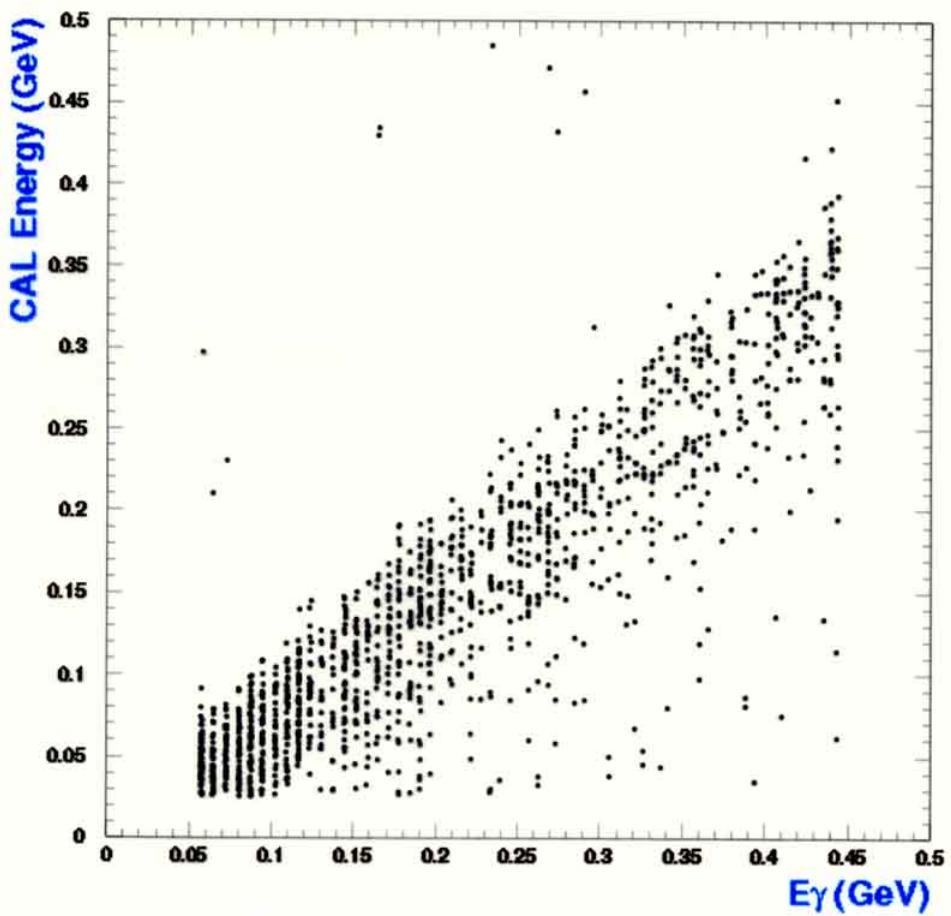


Closer look to a Cosmic ray run



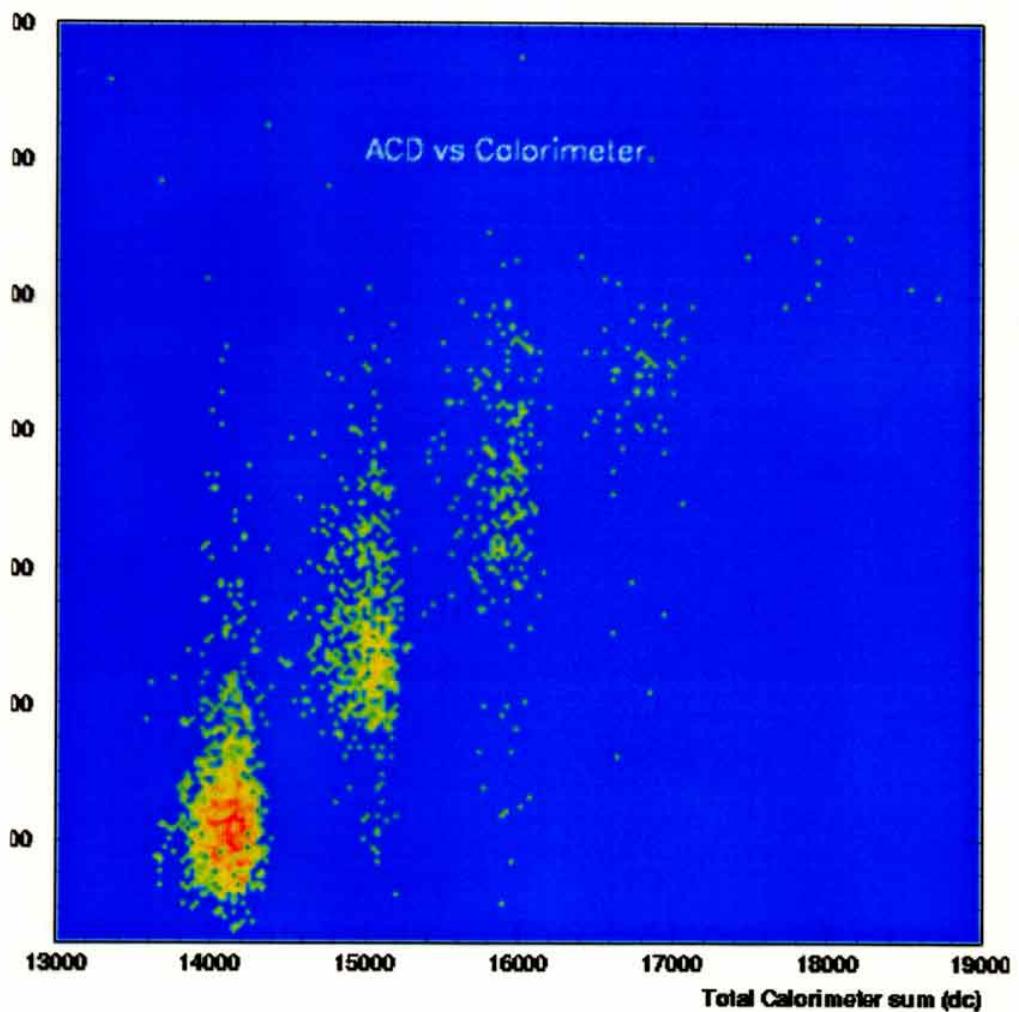


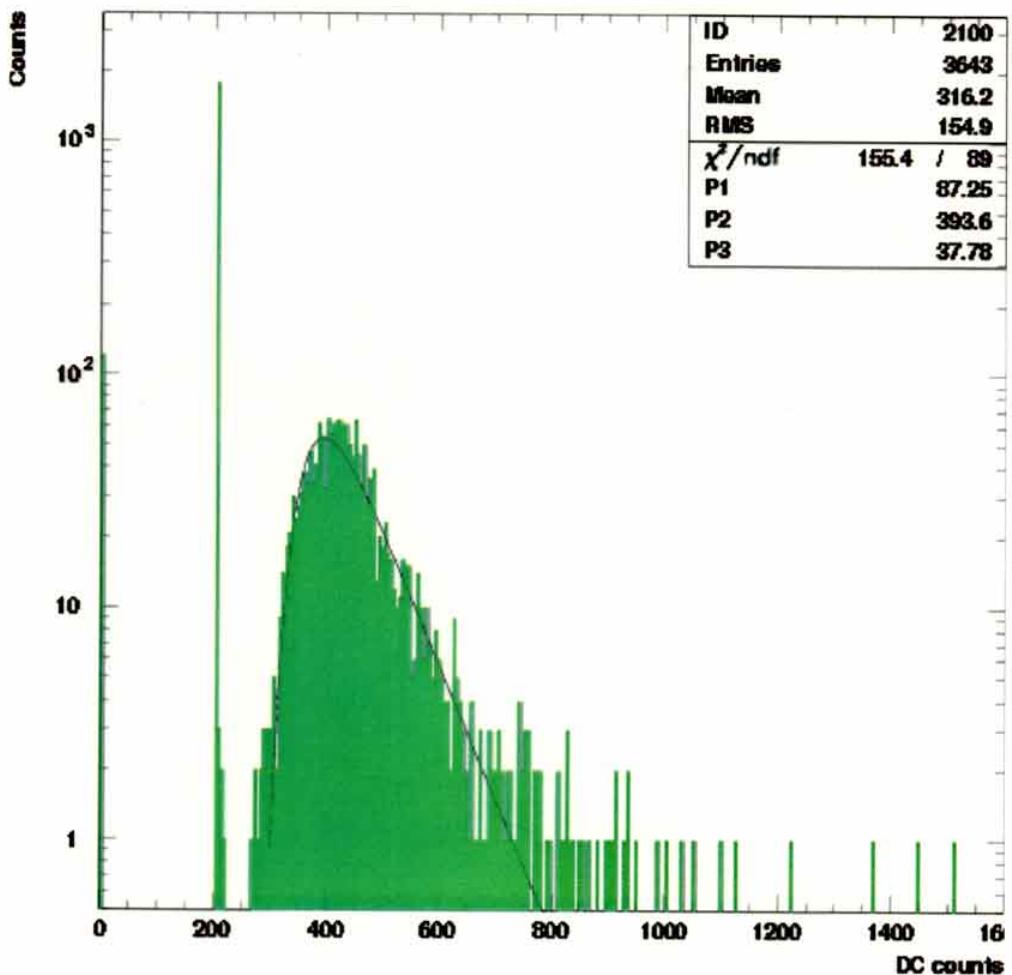
Comparison of Tagger and CAL





Anticoincidence



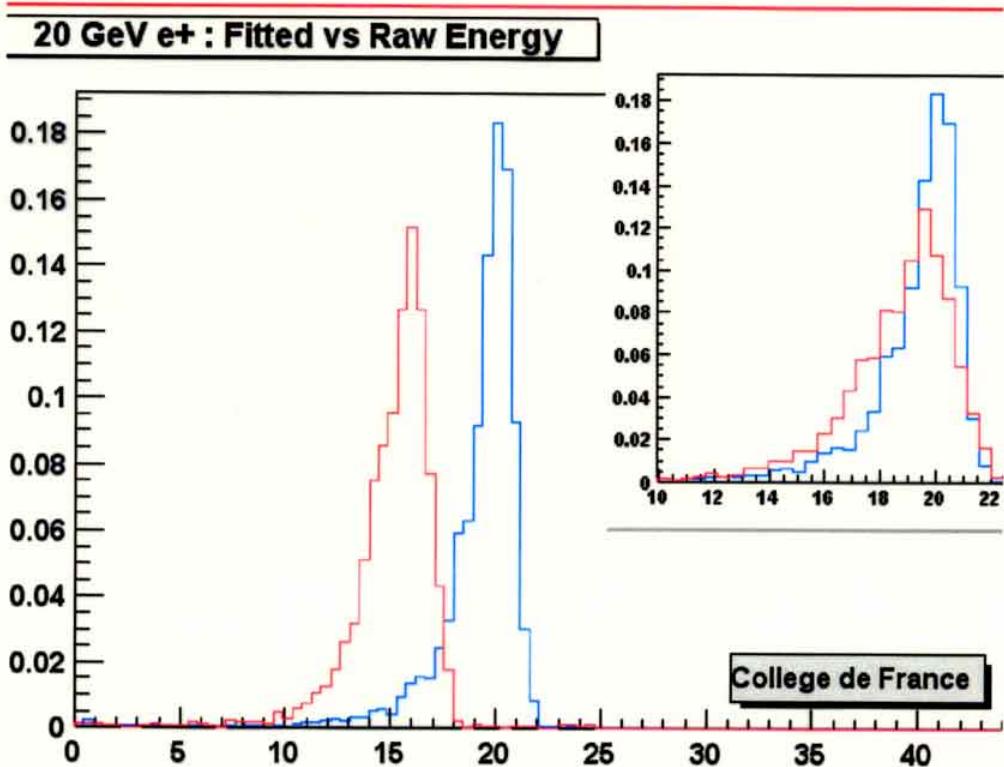




Analysis of beamtest data

Segmented CAL allows energy profile fitting

Example on BT data with 20 GeV electrons (prelim.)



More will be told by Arache & Eric during TKR, CAL
recon // session.

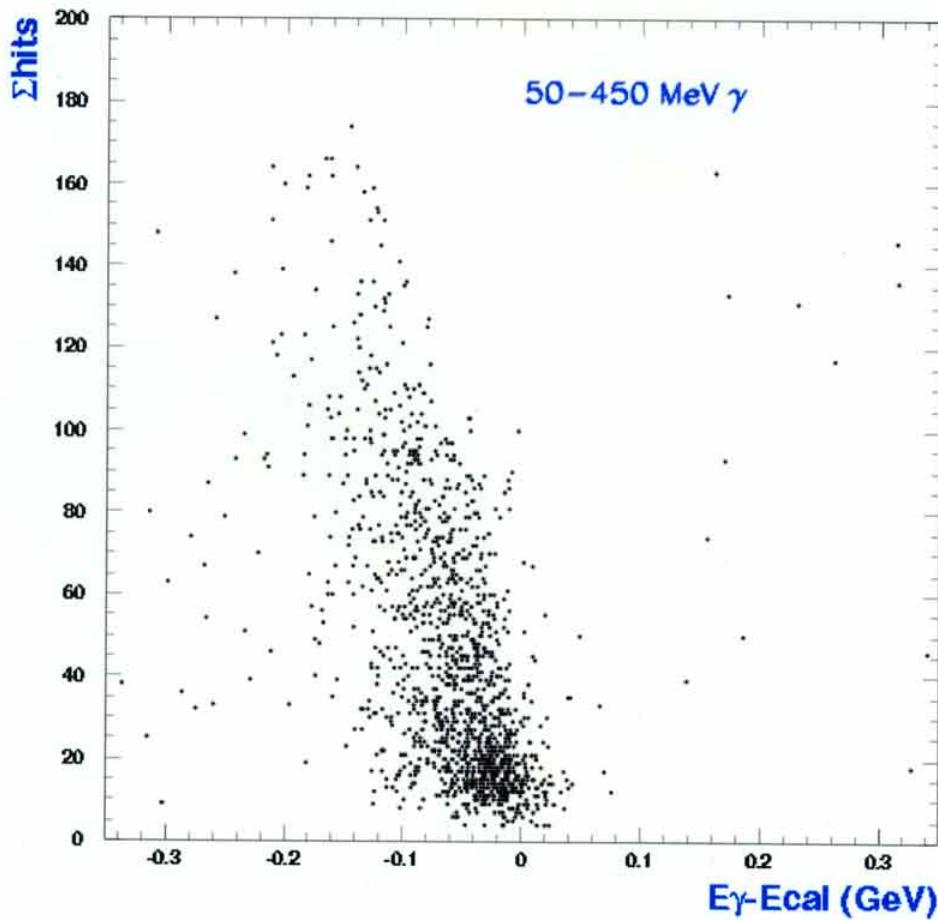


First look at LE photon energy correction on BT data

Correction using TRK, CAL and ACD data: find

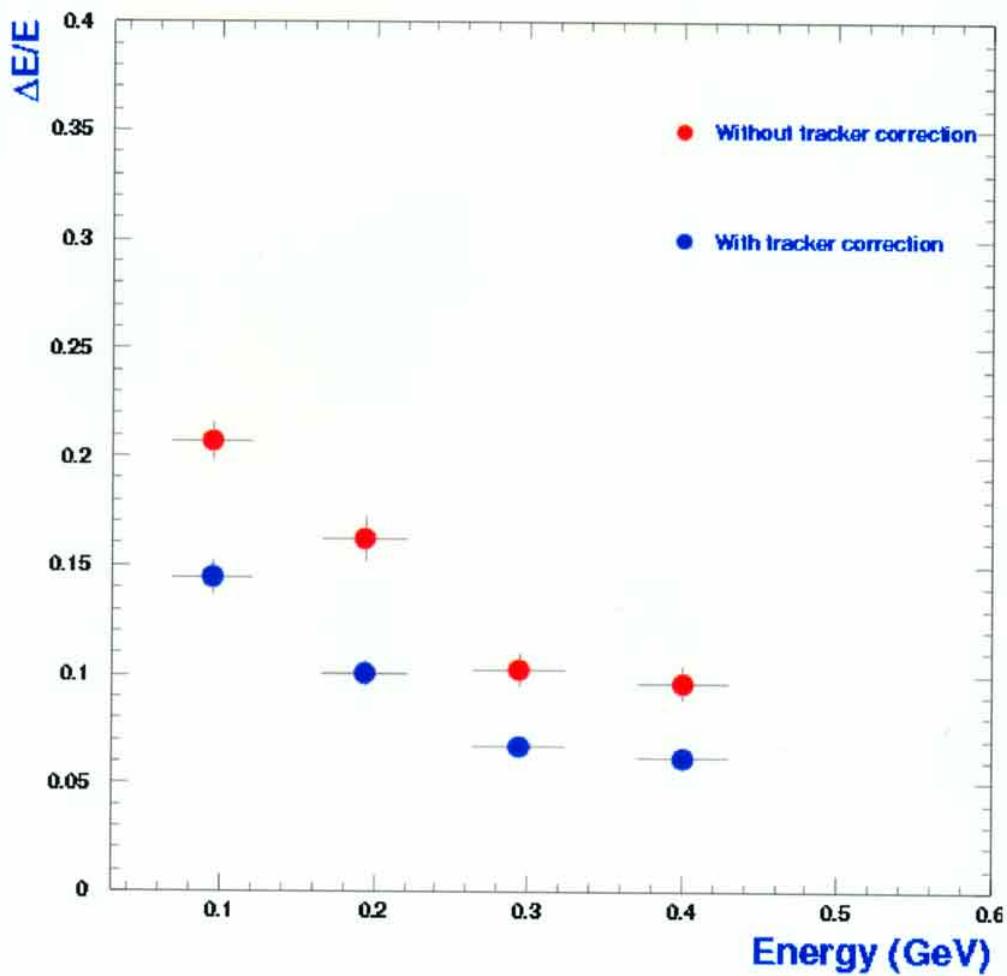
correlation between $E_\gamma - E_{CAL}$

and the hits in the tracker.



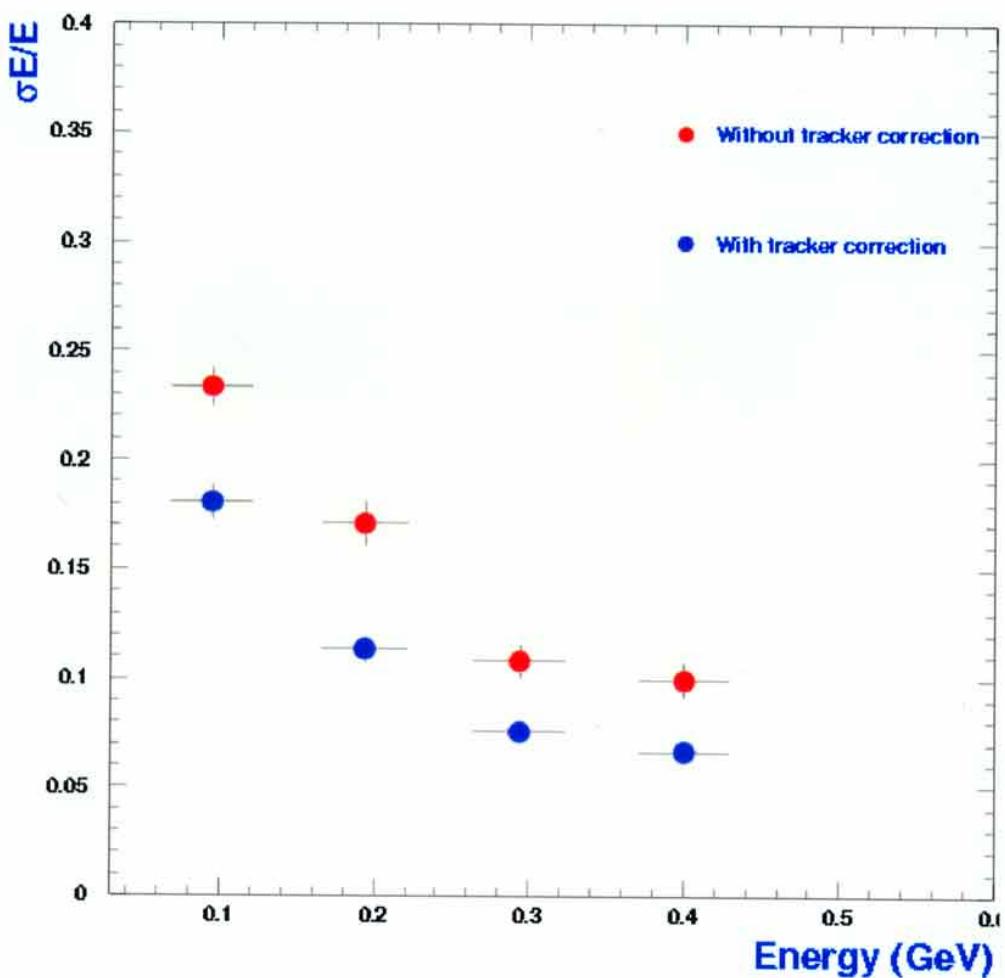


Find k in $E_\gamma - E_{CAL} = k \sum_{planes} hits$





but with more optimistic beam resolution:





Conclusions so far...

- TRK calibration almost completed.
- CAL calibration almost completed for selected runs.
More work to be done for complete set of runs.
- ACD calibration: “soft trigger” needed.
- Tagger calibration: some work remains on beam resolution.
- BT reconstruction in progress.
- BT simulation in progress.
- Stay tuned on the BT weekly VRVS meetings!